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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,944	06/26/2003	Shigeharu Monoe	12732-158001	5033
26171	7590	08/25/2004	EXAMINER	
FISH & RICHARDSON P.C. 1425 K STREET, N.W. 11TH FLOOR WASHINGTON, DC 20005-3500				TOLEDO, FERNANDO L
ART UNIT		PAPER NUMBER		
		2823		

DATE MAILED: 08/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/603,944	MONOE, SHIGEHARU
	Examiner Fernando L. Toledo	Art Unit 2823

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 26 June 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-13 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 26 June 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a))

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 20030626

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 – 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki et al. (US Patent Application Publication US 2002/0158288 A1).

In re claims 1 and 7, Yamazaki, in the US Patent Application Publication US 2002/0158288 A1; figures 1A – 20 and related text, discloses forming a laminate structure comprising a lower first conductive layer 108a and an upper second conductive layer 108b over a semiconductor layer 102 with a gate insulating film 107 interposed therebetween; forming a mask pattern 110 over the laminate structure; forming a first conductive layer pattern 117 having a tapered edge by etching the second conductive layer and the first conductive layer (Figure 1B); recessing an edge of the mask pattern remaining on the first conductive layer pattern (Figure

1C); forming a second conductive layer pattern 124 by selectively etching the second conductive layer in the first conductive layer pattern in accordance with of the mask pattern (Figure 1C); and forming an LDD region 130 in a region of the semiconductor layer overlapping with the first conductive layer in the second conductive layer pattern by using the second conductive layer in the second conductive layer pattern as a mask for shielding ions accelerated by an electric field (Figure 1C).

4. In re claims 2 and 8, Yamazaki discloses wherein the first conductive layer is made of tungsten, and the second conductive layer is made of aluminum or metal having aluminum as the main component (Paragraph 0081).

5. In re claims 3 and 9, Yamazaki discloses wherein the edge of the mask pattern remaining on the first conductive layer pattern is recessed by oxygen plasma treatment (Paragraph 0083).

6. In re claims 4 and 11, Yamazaki discloses forming a laminate structure over a semiconductor layer 104 by sequentially depositing a first conductive layer 108a, a second conductive layer 108b, and a third conductive layer 108c with a gate insulating film 107 interposed therebetween; forming a mask pattern 110 on the laminate structure; forming a first conductive layer pattern 117 having a tapered edge; recessing an edge of the mask pattern remaining on the first conductive layer pattern; forming a second conductive layer pattern by selectively etching the third conductive layer and the second conductive layer in the first conductive layer pattern on the in accordance with basis of the mask pattern (Figure 1C); and forming an LDD 130 region in a region of the semiconductor layer overlapping with the first conductive layer in the second conductive layer pattern by using the third conductive layer and

the second conductive layer in the second conductive layer pattern as a mask for shielding ions accelerated by an electric field (Figure 1C).

7. In re claim 5, Yamazaki discloses wherein the first conductive layer is made of tungsten, the second conductive layer is made of aluminum or alloy or compound having aluminum as the main component, and the third conductive layer is made of titanium nitride (Paragraph 0082).

8. In re claims 6 and 12, Yamazaki discloses wherein the edge of the mask pattern remaining on the first conductive layer pattern is recessed by oxygen plasma treatment (Paragraph 0083).

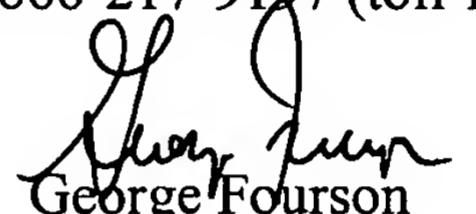
9. In re claims 10 and 13, Yamazaki discloses wherein the width of the mask pattern is decreased by plasmas treatment using a fluorine-based etch (Paragraph 0083).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fernando L. Toledo whose telephone number is 571-272-1867. The examiner can normally be reached on Mon-Thu 7am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



George Fourson
Primary Examiner
Art Unit 2823



FToledo
20 August 2004